



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 1376  
Activity No.: PER19960012

Mr. J. A. Stroink  
Refinery Manager  
Chalmette Refining, L.L.C.  
Post Office Box 1007  
Chalmette, Louisiana 70044

RE: Part 70 Initial Operating permit, Aromatics, Chalmette Refinery, Chalmette Refining, L.L.C., Chalmette, St. Bernard Parish, Louisiana

Dear Mr. Stroink:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011 unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006

Permit No.: 3017-V0

Sincerely,

Chuck Carr Brown, Ph.D.  
Assistant Secretary

SGQ  
cc: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313  
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**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AROMATICS  
AGENCY INTEREST NO. 1376  
CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY  
CHALMETTE, ST. BERNARD PARISH, LOUISIANA**

**I. Background**

Chalmette Refining, L.L.C. (CRLLC) is a joint venture between ExxonMobil Corporation (EMOC) and Petroleos de Venezuela (PDV), the Venezuelan National Oil Company. Chalmette Refinery is located on the left descending bank of Mississippi River at Mile 89 above Head-of-Passes at Chalmette and is operated by EMOC. The facility operates under a consolidated State Permit No. 2500-00005-02 dated November 18, 1988. Other Permit Nos. 2226(M-3), 11/27/1996; and PSD-LA-199(M-4), 10/11/1993 were also issued in the past. Other permits were also issued since 1988. This permit deals with the Aromatics (Sulfolane, Orthoxylene, Toluene, Paraxylenes and Isomerization Units).

**II. Origin**

This review was initiated by an application and Emission Inventory Questionnaire (EIQ) submitted in October 14, 1996, an updated and revised application and EIQ dated October 26, 2005 for the Aromatics. Additional information dated January 23 and 27, and February 9, 2006 was also received.

**III. Description**

Chalmette Refinery is an integrated crude operation (high conversion) which includes crude distillation, catalytic reforming, fluid catalytic cracking (FCC), hydrocracking, HF alkylation, delayed coking, and aromatics processing units. The refinery is capable of producing gasoline, diesel, benzene/toluene/xylene (BTX), distillates, and molten sulfur as well as by-products such as petroleum coke.

Sulfolane Unit (SULF) - This unit receives mixed xylenes/gasolines from the Reformate Fractionation Unit (REFRAC) and stores it in the Sulfolane Charge Tank. In the extraction section, benzene and toluene are extracted from the mixed xylenes. The extract is sent to the Clay Tower Charge Tank where it is stored and later discharged to the SULF for fractionation. In the fractionation section, benzene and toluene are separated and discharged as finished products. The remaining mixed xylenes are discharged from SULF fractionation to the Orthoxylene Section. Benzene and toluene from SULF are stored until they are routed to the Docks and Racks. Toluene is also discharged to the Toluene Disproportionation Unit.

Orthoxylene Unit (ORTHO) - the ORTHO receives mixed xylenes from the Isomerization Unit (ISOM) and SULF. From the Orthoxylene Charge Tanks, mixed xylenes are discharged to the ORTHO. ORTHO separates orthoxylene and discharges it

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to storage. The remaining mixed xylenes are sent to the Paraxylene Unit (PARA). From storage the orthoxylene is discharged to the Docks or Racks. When SULF produces more mixed xylenes than the ORTHO can process, the excess is discharged to the Docks or Racks for sale or off-site storage.

Toluene Disproportionate Unit (TDU) – The TDU receives fresh toluene and toluene from the SULF. In the TDU, the toluene is converted into benzene and paraxylenes. The benzene is sent to storage and later discharged to the Docks, and the paraxylene is discharged to the PARA.

Paraxylene Unit (PARA) – the PARA receives mixed xylenes from the ORTHO. From the Paraxylene Charge Tanks, the mixed xylenes are discharged to the PARA. PARA separates paraxylene and discharges it to storage or sends it to the Paraxylene 3<sup>rd</sup> Stage Unit for further purification. Remaining mixed xylenes, called filtrate (solvent xylenes), are discharged to the Isom Charge Tank. Filtrate can also be discharged to Docks, Racks, or Gasoline Blending.

Paraxylene 3<sup>rd</sup> Stage (PARA3) – The PARA3 receives paraxylene from PARA and TDU for further purification and recovery. The paraxylene is sent to storage until it is discharged to the Docks or Racks. Any remaining mixed xylene (3<sup>rd</sup> stage filtrate) is returned to the PARA for additional paraxylene recovery. PARA3 can operate without PARA, provided TDU is running or sufficient feed is available.

Isomerization Unit (ISOM) – The ISOM receives filtrate from PARA which is stored in the Isom Charge Tank. The ISOM reactors use heat and a catalyst to isomerize the filtrate into orthoxylene and paraxylene. Remaining mixed xylenes are sent to the ORTHO as feed. The orthoxylene and paraxylene are sent to the tank farm for storage or discharged to the Docks or Racks.

Total permitted emissions from the Aromatics based on the current operating conditions which reflect the updated emission factors in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>
PM <sub>10</sub>	22.55
SO <sub>2</sub>	59.54
NO <sub>x</sub>	418.14
CO	130.53
VOC	403.31

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**IV. Type of Review**

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. Prevention of Significant Deterioration does not apply. The facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The Air Toxic Compliance plan was approved on March 13, 1996, the LDAR provisions were approved on October 11, 1996 and the SOCMH HON wastewater provisions were approved on May 21, 1996. The facility has submitted a Part 1 application as required by the Clean Air Act Amendments 112(j).

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and The St. Bernard Voice, Arabi, Louisiana, on \*\*\*\*\* \*\*, 2006. Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on \*\*\*\*\* \*\*, 2006. The proposed permit was sent to EPA via e-mail on \*\*\*\*\* \*\*, 2006.

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**VII. Effects on Ambient Air**

Dispersion Model Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ( $\mu\text{g}/\text{m}^3$ )	Louisiana Air Quality Standard (NAAQS) ( $\mu\text{g}/\text{m}^3$ )
None			

**VIII. General Condition XVII Activities**

ISOM Equipment Maintenance/Preparation and Other Routine Activities

1800 events/yr  
 PM<sub>10</sub> 0.23 tons/yr  
 VOC 0.38 tons/yr

ISOM Planned Startup/Shutdown and Turnaround Activities

600 events/yr  
 VOC 0.15 tons/yr

ORTHO Equipment Maintenance/Preparation and Other Routine Activities

1100 events/yr  
 PM<sub>10</sub> 1.02 tons/yr  
 VOC 0.39 tons/yr

ORTHO Planned Startup/Shutdown and Turnaround Activities

1200 events/yr  
 VOC 1.10 tons/yr

PARA Equipment Maintenance/Preparation and Other Routine Activities

1500 events/yr  
 VOC 2.72 tons/yr

PARA Planned Startup/Shutdown and Turnaround Activities

3150 events/yr  
 VOC 3.09 tons/yr

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**General Condition XVII Activities (Contd.)**

REFRAC Equipment Maintenance/Preparation and Other Routine Activities	600 events/yr	
	PM10	0.65 tons/yr
	VOC	0.16 tons/yr
REFRAC Planned Startup/Shutdown and Turnaround Activities	950 events/yr	
	VOC	0.62 tons/yr
SULF Equipment Maintenance/Preparation and Other Routine Activities	26700 events/yr	
	PM10	0.38 tons/yr
	VOC	1.04 tons/yr
SULF Planned Startup/Shutdown and Turnaround Activities	1550 events/yr	
	VOC	0.63 tons/yr
SULF Clay Tower Change Out	2 events/yr	
	PM10	0.41 tons/yr
	VOC	0.21 tons/yr
TDU Equipment Maintenance/Preparation and Other Routine Activities	1300 events/yr	
	PM10	0.54 tons/yr
	VOC	0.06 tons/yr
TDU Planned Startup/Shutdown and Turnaround Activities	950 events/yr	
	VOC	0.15 tons/yr
TDU Vessel Maintenance	VOC	0.38 tons/yr

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**IX. Insignificant Activities**

<u>ID No.:</u>	<u>Description</u>	<u>Citation</u>
-	Units Tanks (Less than 10,000 gals, 5 tanks)	LAC 33:III.501.B.5.A.3
-	Process Stream Analyzers Emissions	LAC 33:III.501.B.5.A.9
-	Catalyst Changing Operations	LAC 33:III.501.B.5.A.11

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CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY  
 CHALMETTE, ST. BERNARD PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2139	29*	51*	52	56	59
GRP033	Aromatics	1	1	1	1	1			1						1	1		1	1
EQT204	7, Ortho Rerun Reboiler (F-1500)			1	1	1										2			
EQT205	8A/B, Ortho Reboiler (North/South) (F-3001)			1	1	1										2			
EQT206	9, Ortho Reboiler (F-1600)			1	1	1										2			
EQT207	11, No. 1 Hot Heater (F-1201)			1	1	1										2			
EQT208	14, No. 2 Hot Heater (F-1105)			1	1	1										2			
EQT209	16, Prefractionator Reboiler (F-1106)			1	1	1										2			
EQT210	17A/B, Isom Heater (North/South) (F-600)			1	1	1										2			
EQT211	56, Isom Recycle Compressor 1/2 (K-600/601)			1	1					1						2			
EQT212	85A, TDU Detol Reboiler (F-4201)			1	1	1										2			
EQT213	85B, TDU Reboiler (F-4202)			1	1	1										2			
EQT214	85C, TDU Preheater (F-4203)			1	1	1										2			
EQT215	OX, Orthoxylene Vent				1											1			
EQT216	TKMAINT-ARO Aromatics Tank Maintenance and Service																		
EQT217	MPV(TDU), SOCMI Miscellaneous Process Vents																		1
EQT218	TK-131-38, Storage Tank										2								1

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CHALMETTE, ST. BERNARD PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																			
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2139	29*	51*	52	56	59		
EQT219	TK-207, Storage Tank						2												1		
EQT220	TK-208, Storage Tank						2												1		
EQT221	TK-209, Storage Tank						2												1		
EQT222	TK-210, Storage Tank						2												1		
EQT223	TK-211, Storage Tank						2												1		
EQT224	TK-212, Storage Tank						2												1		
EQT225	TK-216, Storage Tank						2												1		
EQT226	TK-217, Storage Tank						2												1		
EQT227	TK-218, Storage Tank						2												1		
EQT228	TK-219, Storage Tank						2												1		
EQT229	TK-221, Storage Tank						2												1		
EQT230	TK-222, Storage Tank						2												1		
EQT231	TK-223, Storage Tank						2												1		
EQT232	TK-227, Storage Tank						2												1		
EQT233	TK-M1, Storage Tank						1												1		
EQT234	TK-M2, Storage Tank						1												1		
EQT235	TK-213, Storage Tank						1												1		
EQT236	TK-214, Storage Tank						1												1		
EQT237	TK-215, Storage Tank						1												1		
EQT238	TK-13001, Storage Tank						1												1		

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2139	29*	51*	52	56	59	
EQT239	TK-13002, Storage Tank						1										1			
EQT240	TK-M3, Storage Tank						1										1			
FUG010	FE-ARO Aromatics Process Fugitives								1		1						1			
EQT257	MPV(Refrac), Refining Miscellaneous Process Vents																			
EQT258	MPV(OSI), SOCOMI Miscellaneous Process Vents											2					1			

KEY TO MATRIX

- 1 -The regulations have applicable requirements which apply to this particular emission source.
  - 2 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 3 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - Blank - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
  - \* The regulations clearly do not apply to this type of emission source.
- The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 63 NESHAP							40 CFR							
		A	Db	Dc	J	Kb	VV	GCG	3N/3R	QQQ	A	J	M	V	FF	A	F	G	H	CC	UUU	4Zs	5Ds	68	8;	
GRP033	Aromatics	1																							1	1
EQT204	7, Ortho Rerun Reboiler (F-1500)				1																					
EQT205	8A/B, Ortho Reboiler (North/South) (F-3001)				1																					2
EQT206	9, Ortho Reboiler (F-1600)				1																					2
EQT207	11, No. 1 Hot Heater (F-1201)				1																					2
EQ208	14, No. 2 Hot Heater (F-1105)				1																					2
EQT209	16, Prefractionator Reboiler (F-1106)				1																					2
EQT210	17A/B, Isom Heater (North/South) (F-600)				1																					2
EQT211	56, Isom Recycle Compressor 1/2 (K-600/601)				2					1																1
EQT212	85A, TDU Detol Reboiler (F-4201)				1																					2
EQT213	85B, TDU Reboiler (F-4202)				1																					2

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 CHALMETTE, ST. BERNARD PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 63 NESHAP							40 CFR							
		A	Db	Dc	J	Kb	VV	GGG	3N/3R	QQQ	A	J	M	V	FF	A	F	G	H	CC	UUU	4Zs	5Ds	68	82	
EQT214	85C, TDU Preheater (F-4203)				1																					
EQT215	OX, Orthoxylene Vent																									
EQT216	TKMAINT-ARO Aromatics Tank Maintenance and																									
EQT217	MPV(TDU), Miscellaneous Process Vents								1/-																	
EQT218	TK-131-38, Storage Tank					2																				
EQT219	TK-207, Storage Tank					2																				
EQT220	TK-208, Storage Tank					2																				
EQT221	TK-209, Storage Tank					2																				
EQT222	TK-210, Storage Tank					2																				
EQT223	TK-211, Storage Tank					2																				
EQT224	TK-212, Storage Tank					2																				
EQT225	TK-216, Storage Tank					2																				
EQT226	TK-217, Storage Tank					2																				
EQT227	TK-218, Storage Tank					2																				
EQT228	TK-219, Storage Tank					2																				
EQT229	TK-221, Storage Tank					2																				
EQT230	TK-222, Storage Tank					2																				
EQT231	TK-223, Storage Tank					2																				

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61							40 CFR 63 NESHAP					40 CFR		
		A	Db	Dc	J	Kb	Vv	Gg	3N/3R	QQ	A	J	M	V	Vf	A	F	G	H	CC	UUU	4Zs	5Ds	68	8:	
EQT232	TK-227, Storage Tank					2				2							1	1		2						
EQT233	TK-M1, Storage Tank					2				1/2							1	1		2						
EQT234	TK-M2, Storage Tank					2				1/2							1	1		2						
EQT235	TK-213, Storage Tank					2				2							1	1		2						
EQT236	TK-214, Storage Tank					2				2							1	1		2						
EQT237	TK-215, Storage Tank					2				2							1	1		2						
EQT238	TK-13001, Storage Tank					1				2							1	1		2						
EQT239	TK-13002, Storage Tank					1				2							1	1		2						
EQT240	TK-M3, Storage Tank					2				1/2							1	1		2						
EQT257	MPV(Refrac), Refining Miscellaneous Process Vents									2/2										2						
EQT258	MPV(OSI), SOCFI Miscellaneous Process Vents									2/2							1	1		1						
FUG010	FE-ARO Aromatics Process Fugitives									1/2							1	1		1						

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 CHALMETTE, ST. BERNARD PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS		40 CFR 61			40 CFR 63 NESHAP				40 CFR														
		A	Db	Dc	J	Kb	VV	GGG	3N/3R	QQQ	A	J	M	V	FF	A	F	G	H	CC	UUU	4Zs	5Ds	68	82

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP033 Aromatics	Compliance Assurance Monitoring for Major Stationary Sources	Exempt	40 CFR 64.2(b)	The initial TV application was deemed complete by LDEQ before April 20, 1998.
EQT204 thru EQT210 7, 8A/B, 9, 11, 14, 16 and 17A/B Heaters and Reboilers	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1313.B	Heater and Reboilers indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns refinery fuel gas - Group 1 Virgin Fossil Fuel
	NESHAP, Subpart DDDDD - Boilers and Process Heaters	Does not apply	40 CFR 63.7506(b)	The facility has submitted the initial notification on March 10, 2005 as requirement of 40 CFR 63.9(b)
EQT211 Isom Recycle Compressor 1/2, (K-600/601)	NSPS, Subpart J - Standards of Performance for Petroleum Refineries	Does not apply	40 CFR 60.100	Constructed prior to June 11, 1973
EQT212 thru EQT214 85A, 85B, 85C Reboilers	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1313.B	Heater and Reboilers indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns refinery fuel gas - Group 1 Virgin Fossil Fuel
	NESHAP, Subpart DDDDD - Boilers and Process Heaters	Does not apply	40 CFR 63.7506(b)	The facility has submitted the initial notification on March 10, 2005 as requirement of 40 CFR 63.9(b)
EQT215 OX, Orthoxylene Vent	Chapter 21, Control of Organic Compounds - Waste Gas Disposal	Exempt	LAC 33:III.2115.H.1.c	Waste gas stream has combined weight of VOCs less than 100 lbs per 24 hour period

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT215 OX, Orthoxylene Vent (Continued)	NESHAP, Subpart CC - NESHAP from Petroleum Refineries: Miscellaneous Process Vent	Does not apply	40 CFR 63.640(d)(4)	Not an affected source
EQT217 MPV, Miscellaneous Process Vents	NESHAP, Subpart UUU - Petroleum Refineries: CCU, CRU and SRU Chapter 21, Control of Organic Compounds - Waste Gas Disposal	Does not apply	40 CFR 63.1562	Not an affected source
	NSPS, Subpart NNN - Standard of Performance for VOC emissions from SOCM Distillation Operations	Does not apply	LAC 33:III.2115	Complies with 40 CFR 63, Subpart CC - a federal regulation
	NESHAP, Subpart CC - NESHAP from Petroleum Refineries: Miscellaneous Process Vents	Does not apply	40 CFR 60.662(b)	Shall route emissions to the No. 1 Flare after the completion of the flare gas recovery system
	Chapter 21, Control of Emissions of Organic Compounds - Storage of VOC	Does not apply	40 CFR 63.640(d)(4)	Not an affected source
EQT218 thru EQT234 TK-131-38, TK-207 thru TK-212, TK-216 thru TK-219, TK-221 thru TK223, TK227 Storage Tanks	NSPS, Subpart K, Ka, Kb - Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	LAC 33:III.2103.A	Vapor pressure of the material stored in the tank is less than 1.5 psia
	NSPS, Subpart QQQ - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.110 40 CFR 60.110a 40 CFR 60.110b	Tank capacity is less than the threshold and not modified after July 23, 1984
	NESHAP, Subpart CC - NESHAP from Petroleum Refineries: Storage Vessels	Does not apply	40 CFR 60.690(a)	The tanks are not part of the affected facility
		Does not apply	40 CFR 63.640(g)(7)	CMPU or overlap with NESHAP, 40 CFR 63, Subpart G

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

AROMATICS  
 AGENCY INTEREST NO. 1376  
 CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY  
 CHALMETTE, ST. BERNARD PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT233 and TK234 TK-M1, TK-M2 Storage Tanks	NSPS, Subpart K, Ka, Kb - Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	40 CFR 60.110 40 CFR 60.110a 40 CFR 60.110b	Tank capacity is less than the threshold and not modified after July 23, 1984
	NSPS, Subpart QQQ - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Applicability Determination	40 CFR 60.690	Currently under review. Permittee shall update or modify the permit based on the determination made under the settlement.
	NESHAP, Subpart CC - NESHAP from Petroleum Refineries: Storage Vessels	Does not apply	40 CFR 63.640(a)	Not an affected storage vessel
EQT235 thru EQT237 TK-213, TK214, TK-215 Storage Tanks	NSPS, Subpart K, Ka, Kb - Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	40 CFR 60.110 40 CFR 60.110a 40 CFR 60.110b	Tank capacity is less than the threshold and or the vapor pressure is less than the threshold
	NSPS, Subpart QQQ - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690(a)	The tanks are not part of the affected facility
	NESHAP, Subpart CC - NESHAP from Petroleum Refineries: Storage Vessels	Does not apply	40 CFR 63.640(g)(7)	CMPU or overlap with NESHAP, 40 CFR 63, Subpart G
EQT238 and EQT239 TK-13001, TK-13002 Storage Tanks	NSPS, Subpart K, Ka - Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	40 CFR 60.110 40 CFR 60.110a	Tanks construction dates
	NSPS, Subpart QQQ - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690(a)	The tanks are not part of the affected facility
EQT240 TK-M3 Storage Tank	NSPS, Subpart K, Ka, Kb - Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	40 CFR 60.110 40 CFR 60.110a 40 CFR 60.110b	Tank construction date

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CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY  
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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT240 TK-M3 Storage Tank (Continued)	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Applicability Determination	40 CFR 60.690	Currently under review. Permittee shall update or modify the permit based on the determination made under the settlement.
EQT257 and EQT258 MPV(Refrac) and MPV(OSI) Refining and SOCM I Miscellaneous Process Vents	NESHAP, Subpart CC – NESHAP from Petroleum Refineries: Storage Vessels Chapter 21, Control of Organic Compounds – Waste Gas Disposal	Does not apply	40 CFR 63.640(g)(7)	Not an affected storage vessel
	NSPS, Subpart NNN – Standard of Performance for VOC Emissions from SOCM I Distillation Operations	Does not apply	LAC 33:III.2115	Complies with 40 CFR 63, Subpart G - a federal regulation. Routes emissions to the No. 2 Flare
	NSPN, Subpart RRR – Standards of Performance for VOC Emissions from SOCM I Reactor Processes	Does not apply	40 CFR 60.662(b)	Shall route emissions to the No. 2 Flare
	NESHAP, Subpart CC – NESHAP from Petroleum Refineries: Miscellaneous Process Vents	Does not apply	40 CFR 60.700 and 707	Shall route emissions to the No. 2 Flare
FUG010 FE-ARO, Aromatics Process Fugitives	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Applicability Determination	40 CFR 63.640(d)(4)	Not an affected source
	NESHAP, Subpart V – National Emission Standard for Equipment Leaks of VHAP	Does not apply	40 CFR 60.690	Currently under review. Permittee shall update or modify the permit based on the determination made under the settlement.
			40 CFR 61.240-1(a)	Overlapping regulations NESHAP, 40 CFR 63, Subpart H and Subpart CC

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

AROMATICS  
AGENCY INTEREST NO. 1376  
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CHALMETTE, ST. BERNARD PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit				

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

## 40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.  
[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a

## 40 CFR PART 70 GENERAL CONDITIONS

written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
  - b. Report by September 30 to cover April through June
  - c. Report by December 31 to cover July through September
  - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 14, 1996 and an updated and revised application and EIQ dated November 14, 2005, and additional information dated January 23 and 27, and February 9, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. *The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.*
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
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D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

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- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

**AI ID: 1376 Chalmette Refining LLC - Chalmette Refinery**

Activity Number: PER19960010

Permit Number: 3004-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2500-00005	Chalmette Refining LLC - Chalmette Refinery	CDS Number	05-27-1993
	2500-0005	Chalmette Refining LLC - Chalmette Refinery	Emission Inventory	03-03-2004
	13-5401570	Mobil Oil Corp	Federal Tax ID	08-07-2002
	LAD008179707	Chalmette Refining LLC	Hazardous Waste Notification	10-22-2002
	PMT/C-A	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
	00597	Chalmette Refining	Inactive & Abandoned Sites	11-23-1999
	LA0004260	WPC File Number	LPDES Permit #	05-22-2003
	WP0569	WPC State Permit Number	LWDPS Permit #	06-25-2003
	WP3391	WPC State Permit Number	LWDPS Permit #	06-25-2003
	LA-2247-L01	Radioactive Material License	Radiation License Number	01-19-1999
	6264	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
	GD-087-1774	Mobil Oil Corp	Solid Waste	01-08-2002
	GD-087-1774	Site ID #	Solid Waste Facility No.	11-21-1999
	19637	Exxon Co USA - Chalmette Terminal	TEMPO Merge	04-24-2001
	36173	Mobil Oil Corp	TEMPO Merge	04-26-2001
	38796	ExxonMobil Oil Corp - Chalmette Refining LLC	TEMPO Merge	12-16-2003
	44916	Mobil Oil Corp - Chalmette Refinery	TEMPO Merge	05-22-2001
	45047	Chalmette Refining LLC - A Delaware Ltd Liability Co	TEMPO Merge	03-28-2001
	47202	Mobil Oil Corp - Chalmette Refinery	TEMPO Merge	10-02-2001
	2500-0005	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
	70143TNNCL500WE	TRI#	Toxic Release Inventory	07-09-2004
	01-269	Motor Fuel Delivery Certificate #	Underground Storage Tanks	08-07-2002
	44-015380	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002

**Physical Location:**

500 W St Bernard Hwy  
Chalmette, LA 70043

Main FAX: 5042811365  
Main Phone: 5042811212

**Mailing Address:**

PO Box 1007  
Chalmette, LA 700441007

**Related People:**

Name	Mailing Address	Phone (Type)	Relationship
Robert Cooper		5042320276 (WP)	Katrina Response Contact for
Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Radiation Safety Officer for
Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Air Permit Contact For
Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Radiation Contact For

**General Information**

AI ID: 1376 Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960010

Permit Number: 3004-V0

Air - Title V Regular Permit Initial

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Accident Prevention Contact for
	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Solid Waste Billing Party for
	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Haz Waste Billing Party for
	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Water Billing Party for
	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Accident Prevention Billing Party for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Air Billing Party for
	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Radiation License Billing Party for
	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Owns
	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Radiation Registration Billing Party for
	ExxonMobil Oil Corp	500 W St Bernard Hwy Chalmette, LA 70043		Accident Prevention Billing Party for
	ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 700441007		UST Billing Party for
	ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 700441007		Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [facupdate@la.gov](mailto:facupdate@la.gov).

**INVENTORIES**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT204	7, Ortho Rerun Reboiler (F-1500)		51 MM BTU/hr	26 MM BTU/hr		8760 hr/yr (All Year)
EQT205	8AB, Ortho Reboiler (North/South) (F-3001)		182 MM BTU/hr	122 MM BTU/hr		8760 hr/yr (All Year)
EQT206	9, Ortho Reboiler (F-1600)		132 MM BTU/hr	47 MM BTU/hr		8760 hr/yr (All Year)
EQT207	11, No. 1 Hot Heater (F-1201)		160 MM BTU/hr	140 MM BTU/hr		8760 hr/yr (All Year)
EQT208	14, No. 2 Hot Heater (F-1105)		173 MM BTU/hr	140 MM BTU/hr		8760 hr/yr (All Year)
EQT209	16, Prefractionator Reboiler (F-1106)		47 MM BTU/hr	25 MM BTU/hr		8760 hr/yr (All Year)
EQT210	17AB, Isom Heater (North/South) (F-600)		70 MM BTU/hr	53 MM BTU/hr		8760 hr/yr (All Year)
EQT211	56, Isom Recycle Compressor 1/2 (K-600/601)		550 horsepower	550 horsepower		8760 hr/yr (All Year)
EQT212	85A, TDU Detail Reboiler (F-4201)		86 MM BTU/hr	65 MM BTU/hr		8760 hr/yr (All Year)
EQT213	85B, TDU Reboiler (F-4202)		44 MM BTU/hr	37 MM BTU/hr		8760 hr/yr (All Year)
EQT214	85C, TDU Preheater (F-4203)		41 MM BTU/hr	24 MM BTU/hr		8760 hr/yr (All Year)
EQT215	OX, Orthoxylene Vent		6.51 tons/yr	2.71 tons/yr		8760 hr/yr (All Year)
EQT216	TKMAINT-ARO, Aromatics Tank Maintenance and Service Changes					(None Specified)
EQT217	MPV(TDU), SOCOMI Miscellaneous Process Vents					
EQT218	TK-131-38, Storage Tank	550 gallons				8760 hr/yr (All Year)
EQT219	TK-207, Storage Tank	406219 gallons				8760 hr/yr (All Year)
EQT220	TK-208, Storage Tank	20778 gallons				8760 hr/yr (All Year)
EQT221	TK-209, Storage Tank	20808 gallons				8760 hr/yr (All Year)
EQT222	TK-210, Storage Tank	20824 gallons				8760 hr/yr (All Year)
EQT223	TK-211, Storage Tank	20815 gallons				8760 hr/yr (All Year)
EQT224	TK-212, Storage Tank	20811 gallons				8760 hr/yr (All Year)
EQT225	TK-216, Storage Tank	20816 gallons				8760 hr/yr (All Year)
EQT226	TK-217, Storage Tank	20708 gallons				8760 hr/yr (All Year)
EQT227	TK-218, Storage Tank	20728 gallons				8760 hr/yr (All Year)
EQT228	TK-219, Storage Tank	20750 gallons				8760 hr/yr (All Year)
EQT229	TK-221, Storage Tank	18385 gallons				8760 hr/yr (All Year)
EQT230	TK-222, Storage Tank	18381 gallons				8760 hr/yr (All Year)
EQT231	TK-223, Storage Tank	18398 gallons				8760 hr/yr (All Year)
EQT232	TK-227, Storage Tank	18776 gallons				8760 hr/yr (All Year)
EQT233	TK-M1, Storage Tank	16912 gallons				8760 hr/yr (All Year)
EQT234	TK-M2, Storage Tank	16912 gallons				8760 hr/yr (All Year)
EQT235	TK-213, Storage Tank	20186 gallons				8760 hr/yr (All Year)
EQT236	TK-214, Storage Tank	20152 gallons				8760 hr/yr (All Year)
EQT237	TK-215, Storage Tank	20154 gallons				8760 hr/yr (All Year)
EQT238	TK-13001, Storage Tank	80698 gallons				8760 hr/yr (All Year)
EQT239	TK-13002, Storage Tank	80844 gallons				8760 hr/yr (All Year)

**INVENTORIES**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery  
 Activity Number: PER19960012  
 Permit Number: 3017-V0  
 Air - Title V Regular Permit Initial

Subject Item Inventory.

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT240	TK-M3, Storage Tank	62967 gallons				8760 hr/yr (All Year)
EQT257	MPV(Refrac), Refining Units Miscellaneous Process Vents					8760 hr/yr (All Year)
EQT258	MPV(OSI), SOCM Miscellaneous Process Vents					8760 hr/yr (All Year)
FUG010	FE-ARO, Aromatics Process Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP033	Aromatics	EQT204 7, Ortho Rerun Reboiler (F-1500)
GRP033	Aromatics	EQT205 8AB, Ortho Reboiler (North/South) (F-3001)
GRP033	Aromatics	EQT206 9, Ortho Reboiler (F-1600)
GRP033	Aromatics	EQT207 11, No. 1 Hot Heater (F-1201)
GRP033	Aromatics	EQT208 14, No. 2 Hot Heater (F-1105)
GRP033	Aromatics	EQT209 16, Prefractionator Reboiler (F-1106)
GRP033	Aromatics	EQT210 17AB, Isom Heater (North/South) (F-600)
GRP033	Aromatics	EQT211 56, Isom Recycle Compressor 1/2 (K-600/601)
GRP033	Aromatics	EQT212 85A, TDU Detol Reboiler (F-4201)
GRP033	Aromatics	EQT213 85B, TDU Reboiler (F-4202)
GRP033	Aromatics	EQT214 85C, TDU Preheater (F-4203)
GRP033	Aromatics	EQT215 OX, Orthoxylene Vent
GRP033	Aromatics	EQT216 TKMAINT-ARO, Aromatics Tank Maintenance and Service Changes
GRP033	Aromatics	FUG10 FE-ARO, Aromatics Process Fugitives
GRP034	Group A Tanks Emission Cap	EQT218 TK-131-38, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT219 TK-207, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT220 TK-208, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT221 TK-209, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT222 TK-210, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT223 TK-211, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT224 TK-212, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT225 TK-216, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT226 TK-217, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT227 TK-218, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT228 TK-219, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT229 TK-221, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT230 TK-222, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT231 TK-223, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT232 TK-227, Storage Tank

## INVENTORIES

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP034	Group A Tanks Emission Cap	EQT233 TK-M1, Storage Tank
GRP034	Group A Tanks Emission Cap	EQT234 TK-M2, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT235 TK-213, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT236 TK-214, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT237 TK-215, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT238 TK-13001, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT239 TK-13002, Storage Tank
GRP035	Group B Tanks Emission Cap	EQT240 TK-M3, Storage Tank

**Relationships:**

**Stack Information:**

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT204	29.5	26600	15		75.5	890
EQT205	49.2	44300	15		104.7	770
EQT206	38.1	45700	20		86.6	750
EQT207	23	40000	29		122.4	890
EQT208	26.9	46800	29		122.4	900
EQT209	16.4	15700	16		95.1	550
EQT210	27.6	19900	12		35.4	750
EQT211	107.9	12900	2		20	400
EQT212	10.5	16400	26		140	435
EQT213	10.5	16400	26		140	435
EQT214	10.5	16400	26		140	435
EQT215					5	

**Fee information:**

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP033	1	1,000 BBL/Day	0720 - Petroleum Refining (Rated Capacity)

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

### Phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
QT 204	0.19	0.38	0.85	0.52	1.79	2.28	2.81	8.71	12.30	1.04	4.20	4.56	0.14	0.28	0.61
QT 205 A	0.91	1.36	3.98	2.44	6.37	10.69	21.94	43.49	96.11	4.88	15.00	21.37	0.66	0.98	2.88
QT 206	0.35	0.96	1.53	0.94	4.62	4.12	5.02	22.55	21.98	1.88	10.88	8.23	0.25	0.71	1.11
QT 207	1.04	1.19	4.57	2.80	5.60	12.26	23.65	29.82	103.57	5.60	13.18	24.53	0.76	0.86	3.31
QT 208	1.04	1.29	4.57	2.80	6.06	12.26	22.36	32.24	97.94	5.50	14.26	24.53	0.76	0.93	3.31
QT 209	0.19	0.35	0.82	0.50	1.65	2.19	2.52	7.30	11.04	1.00	3.87	4.38	0.14	0.25	0.59
QT 210 A/B	0.40	0.52	1.73	1.06	2.45	4.64	8.08	13.05	36.39	2.12	5.77	9.29	0.29	0.38	1.25
QT 211	0.08	0.20	0.39	0.02	0.04	0.07	2.00	10.00	9.64	2.40	10.00	11.56	0.12	0.30	0.57
QT 212 A	0.48	0.64	2.12	1.30	3.01	5.69	3.58	5.80	15.67	2.60	7.09	11.39	0.35	0.46	1.54
QT 213 B	0.28	0.33	1.21	0.74	1.54	3.24	2.20	2.97	9.62	1.48	3.63	6.48	0.20	0.24	0.87
QT 214 C	0.18	0.31	0.78	0.48	1.44	2.70	1.11	2.76	4.88	0.96	3.38	4.21	0.13	0.22	0.57
QT 215 X													0.01	0.03	0.04
QT 216 K/MAINT-ARO													0.93		4.08
UG 010 E-ARO													71.56		313.43
RP 034 RO-TKGRP-A													15.14		66.32
RP 035 RO-TKGRP-B													0.65		2.83

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

**II phases**

A10: 22.55 tons/yr

B2: 59.54 tons/yr

Dx: 418.14 tons/yr

D: 130.53 tons/yr

DC: 403.31 tons/yr

mission rates Notes:

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

**II phases**

Subject Item	1,3-Butadiene			2,2,4-Trimethylpentane			Ammonia			Benzene			Biphenyl		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
QT 215 x															
QT 216 4MAINT-ARO	0.001		0.005	0.03		0.11				0.42		1.85			
UG 010 E-ARO	0.002		0.01	0.02		0.09	0.35		1.52	3.95		17.30	0.01		0.65
RP 034 RO-TKGRP-A										0.24		1.05			
RP 035 RO-TKGRP-B										0.23		1.00			

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

**II phases**

Subject Item	Carbon disulfide			Chlorobenzene			Cresol			Cumene			Dichloromethane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
QT 215 x															
QT 216 KMAINT-ARO							< 0.001		< 0.001	0.001		0.002			
UG 010 E-ARO	< 0.001		0.001	< 0.001		0.001	0.02		0.10	0.07		0.29	< 0.001		< 0.001
RP 034 RO-TKGRP-A										< 0.001		0.002			
RP 035 RO-TKGRP-B															

# EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

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Air - Title V Regular Permit Initial

## II phases

subject item	Ethyl benzene			Hydrogen sulfide			Methanol			Methyl Tertiary Butyl Ether			Methyl ethyl ketone		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Q1 215															
Q1 216	0.02		0.10				0.001		0.04						
MAINT-ARO															
UG 010	3.22		14.99	0.39		1.72	0.26		0.003		0.01				0.11
E-ARO															
SRP 034	0.04		0.15												
RO-TKGRP-A															
SRP 035	0.001		0.003												
RO-TKGRP-B															

# EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

## II phases

Subject Item	Methyl Isobutyl ketone			Naphthalene (and Methyl naphthalenes)			Phenol			Quinoline			Styrene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
QOT 215 IX				< 0.001		< 0.001	< 0.001								
QOT 216 KMAINT-ARO													0.001		0.001
UG 010 E-ARO	< 0.001		0.002	0.16		0.83	0.03		0.15	< 0.001			0.001		0.001
SRP 034 RO-TKGRP-A															
SRP 035 RO-TKGRP-B															

# EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

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Air - Title V Regular Permit Initial

## I phases

Subject Item	Sulfuric acid			Tetrachloroethylene			Toluene			Trichloroethylene			Xylene (mixed isomers)		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
QT 215													0.01	0.03	0.04
QT 216							0.16		0.70				0.16		0.69
MAINT-ARO							10.09		44.20				28.44		124.57
JG 010	< 0.001		< 0.001	< 0.001											
ARO															
RP 034							10.78		47.22				2.85		12.78
RO-TKGRP-A															
RP 035							0.01		0.06				0.30		1.30
RO-TKGRP-B															

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

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Air - Title V Regular Permit Initial

**II phases**

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
QT 215			
QT 216	0.34		1.48
UG 010	0.66		2.68
RP 034			
RP 035			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Parameter Totals:**

1-Butadiene: 0.01 tons/yr

2,4-Trimethylpentane: 0.20 tons/yr

Ammonia: 1.52 tons/yr

Acetylene: 21.22 tons/yr

Acetylene: 0.05 tons/yr

Carbon disulfide: 0.001 tons/yr

Chlorobenzene: <0.001 tons/yr

Ethanol: 0.10 tons/yr

Diene: 0.29 tons/yr

Chloromethane: <0.001 tons/yr

Hydrogen sulfide: 14.34 tons/yr

Hydrogen sulfide: 1.72 tons/yr

Ethanol: 1.16 tons/yr

Ethyl ethyl ketone: 0.11 tons/yr

Ethyl isobutyl ketone: 0.002 tons/yr

Ethyl Tertiary Butyl Ether: 0.20 tons/yr

Hexane: 4.36 tons/yr

1,2,3,4-Tetrahydronaphthalene (and Methyl naphthalenes): 0.68 tons/yr

1,2-Dichloroethane: 0.15 tons/yr

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

**phases**

toluene: <0.001 tons/yr

benzene: 0.02 tons/yr

nitric acid: <0.001 tons/yr

1,2-dichloroethane: 0.001 tons/yr

ethylene: 92.18 tons/yr

1,1-dichloroethane: <0.001 tons/yr

ethylene (mixed isomers): 139.08 tons/yr

**emission Rates Notes:**

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

### 1T204 7, Ortho Rerun Reboiler (F-1500)

- 1 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 2 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 3 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 4 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 5 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device.  
Subpart J. [40 CFR 60.105(a)(4)]
- 6 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 7 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 8 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

### 1T205 8A/B, Ortho Reboiler (North/South) (F-3001)

- 9 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 10 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 11 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 12 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 13 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 14 Conduct a performance/emissions test: Due within 180 days after the issuance of initial Part 70 permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 15 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

**AJ ID: 1376 - Chalmette Refining LLC - Chalmette Refinery**

**Activity Number: PER19960012**

**Permit Number: 3017-V0**

**Air - Title V Regular Permit Initial**

**2I205 8AB, Ortho Reboiler (North/South) (F-3001)**

- 16 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 17 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 18 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 19 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

**2I206 9, Ortho Reboiler (F-1600)**

- 20 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.101.B]
- Which Months: All Year Statistical Basis: None specified
- 21 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 22 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 23 Fuel gas; Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 24 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 25 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 26 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 27 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

**2I207 11, No. 1 Hot Heater (F-1201)**

- 28 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.101.B]
- Which Months: All Year Statistical Basis: None specified
- 29 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 30 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 31 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 32 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

**AJ ID: 1376 - Chalmette Refining LLC - Chalmette Refinery**

**Activity Number: PER19960012**

**Permit Number: 3017-V0**

**Air - Title V Regular Permit Initial**

**2T207 11, No. 1 Hot Heater (F-1201)**

- 33 Conduct a performance/emissions test Due within 180 days after the issuance of initial Part 70 permit. The stack tests purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 34 Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 35 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 36 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 37 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 38 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

**2T208 14, No. 2 Hot Heater (F-1105)**

- 39 Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 40 Total suspended particulate  $\leq 0.6$  lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 41 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]  
42 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 43 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 44 Conduct a performance/emissions test: Due within 180 days after the issuance of initial Part 70 permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 45 Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

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### 1208 14, No. 2 Hot Heater (F-1105)

- 46 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 47 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 48 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 49 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

### 1209 16, Prefractionator Reboiler (F-1106)

- 50 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1501.B]
- Which Months: All Year Statistical Basis: None specified
- 51 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 52 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 53 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 54 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 55 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 56 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 57 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

### 1210 17A/B, Isom Heater (North/South) (F-600)

- 58 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1501.B]
- Which Months: All Year Statistical Basis: None specified
- 59 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 60 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 61 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 62 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

**AJ ID: 1376 - Chalmette Refining LLC - Chalmette Refinery**

**Activity Number: PER19960012**

**Permit Number: 3017-V0**

**Air - Title V Regular Permit Initial**

**2I210 17A/B, Isom Heater (North/South) (F-600)**

- 63 Conduct a performance/emissions test. Due within 180 days after the issuance of initial Part 70 permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 64 Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 65 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 66 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 67 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 68 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

**2I211 56, Isom Recycle Compressor 1/2 (K-600/601)**

- 69 Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.101.B]
- 70 Total suspended particulate  $\leq 0.6$  lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 71 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 72 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 73 Formaldehyde  $\leq 350$  ppb/v at 15% oxygen or reduce the formaldehyde emissions by 76% or more as per the requirements of NESHAP, 40 CFR 63.6600, Table 1a. Subpart ZZZZ. [40 CFR 63.6600(a)]  
Which Months: All Year Statistical Basis: None specified
- 74 Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 75 Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 76 Shall conduct initial performance test or other initial compliance demonstration as per the provisions of NESHAP, 40 CFR 63.6610, Table 4, Item 2.a. Subpart ZZZZ. [40 CFR 63.6610]
- 77 Conduct subsequent performance tests semiannually as per the requirements of NESHAP, 40 CFR 63.6615, Table 3, Item 2. Subpart ZZZZ. [40 CFR 63.6615]

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

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### 1211 56, Isom Recycle Compressor 1/2 (K-600/601)

- 78 Conduct each performance test according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]
- 79 Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(e)]
- 80 Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 81 Include a written report of the average percent load determination in the notification of compliance status. Include the following information: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accuracy in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(j)]
- 82 Petition DEQ for operating limitations to be established during the initial performance test and continuously monitored thereafter, or for approval of no operating limitations. Do not conduct the initial performance test until after the petition has been approved by DEQ. If petitioning DEQ for approval of operating limitations, include the information described in 40 CFR 63.6620(g)(1) through (g)(5). If petitioning DEQ for approval of no operating limitations, include the information described in 40 CFR 63.6620(h)(1) through (h)(7). Subpart ZZZZ. [40 CFR 63.6620]
- 83 Permittee shall install a continuous parameter monitoring system (CPMS) as specified in NESHAP, 40 CFR 63.6625, Table 5, Item 4. a. Subpart ZZZZ. [40 CFR 63.6625(b)]
- 84 Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 85 Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645. Subpart ZZZZ. [40 CFR 63.6630(c)]
- 86 Report each instance in which each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1 a and 1 b and Tables 2a and 2b were not met according to the requirements of 40 CFR 63.6650. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 87 Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 88 Operate in accordance with the startup, shutdown, and malfunction plan during periods of startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6640(c)]
- 89 Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g), and (h) by the dates specified, as specified in 40 CFR 63.6645(b) through (f). Subpart ZZZZ. [40 CFR 63.6645]
- 90 Report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). Subpart ZZZZ. [40 CFR 63.6650(f)]
- 91 Submit compliance status report: Due semiannually, by the 31st of January and July. Include the information specified in 40 CFR 63.6650(c)(1) through (c)(6) and 40 CFR 63 Subpart ZZZZ Table 7 1-a, 1-b, or 1-c. Include the information in 40 CFR 63.6650(d)(1) and (d)(2) and 63.6650(e)(1) through (e)(12), if applicable. Subpart ZZZZ. [40 CFR 63.6650]
- 92 Submit startup, shutdown, and malfunction report: Due by fax or telephone within 2 working days after starting actions inconsistent with the startup, shutdown, and malfunction plan, and by letter within 7 working days after the end of the event unless alternate arrangements have been made with DEQ. Include in the report actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart ZZZZ. [40 CFR 63.6650]
- 93 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ. [40 CFR 63.6655]
- 94 Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(a)]
- 95 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(b)]

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

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### 21211 56, Isom Recycle Compressor 1/2 (K-600/601)

96 Keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The remaining 3 years of records may be kept off-site. Subpart ZZZZ. [40 CFR 63.6660(c)]

### 21212 85A, TDU Detol Reboiler (F-4201)

97 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

98 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

99 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]

100 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: None specified

101 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device.

Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

102 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

103 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

104 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

### 21213 85B, TDU Reboiler (F-4202)

105 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

106 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

107 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]

108 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: None specified

109 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device.

Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

110 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

111 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

112 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

## SPECIFIC REQUIREMENTS

AJ ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

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### IT214 85C, TDU Preheater (F-4203)

- 113 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 114 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 115 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with all the applicable requirements of LAC 33:III.1503.C. [LAC 33:III.1503.C]
- 116 Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 117 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.  
Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 118 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 119 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 120 Shall comply with all the applicable requirements of reporting and recordkeeping as specified in 40 CFR 60.107. [40 CFR 60.107]

### IT215 OX, OrthoxyMene Vent

- 121 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 122 Dual Carbon Canisters in Series: Permittee shall reduce emissions of total organic hazardous air pollutants by 98 percent or to a concentration of 20 ppmv, whichever is less stringent or shall comply with the latest Alternative Monitoring Plan (AMP) approved by US EPA. The approved letter shall be kept on site and available for inspection by LDEQ. [LAC 33:III.501.C.6]
- 123 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 124 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F. [40 CFR 63.100]
- 125 Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- 126 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 127 Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G. [40 CFR 63.119(e)(3)]

### IT217 MPV(TDU), SOCFI Miscellaneous Process Vents

- 128 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 129 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of 40 CFR 60, Subpart NNN. [40 CFR 60.660, 40 CFR 63.110(d)(4), 40 CFR 63.110(d)(8)]

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### 1217 MPV(TDU), SOCFI Miscellaneous Process Vents

- 130 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F. [40 CFR 63.100]
- 131 Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- 132 Perform the compliance determination specified in 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)]
- 133 Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 134 Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
- 135 Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
- 136 Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
- 137 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 138 Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G. [40 CFR 63.119(e)(3)]

### 1218 TK-131-38, Storage Tank

- 139 Shall comply with all the applicable requirements of LAC 33:III, Chapter 51. Emits Class III toxic air pollutants. MACT is not required. [LAC 33:III.5109.A]

### 1219 TK-207, Storage Tank

- 140 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 141 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

### 1220 TK-208, Storage Tank

- 142 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 143 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

### 1221 TK-209, Storage Tank

- 144 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 145 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

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**1222 TK-210, Storage Tank**

- 146 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]
- 147 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1223 TK-211, Storage Tank**

- 148 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]
- 149 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1224 TK-212, Storage Tank**

- 150 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]
- 151 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1225 TK-216, Storage Tank**

- 152 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]
- 153 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1226 TK-217, Storage Tank**

- 154 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]
- 155 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1227 TK-218, Storage Tank**

- 156 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III,Chapter 51. [LAC 33:III.5109.A]

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**1227 TK-218, Storage Tank**

157 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1228 TK-219, Storage Tank**

158 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.51 09. A]  
159 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1229 TK-221, Storage Tank**

160 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.51 09. A]  
161 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1230 TK-222, Storage Tank**

162 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.51 09. A]  
163 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1231 TK-223, Storage Tank**

164 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.51 09. A]  
165 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

**1232 TK-227, Storage Tank**

166 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.51 09. A]

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### T232 TK-227, Storage Tank

167 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

### T233 TK-M1, Storage Tank

- 168 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 169 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 170 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 171 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 172 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 173 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 174 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 175 Submit report: Due semiannually, by the 15th of March and September. Submit the number of breakthroughs for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 176 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 177 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63.149(b). Subpart G. [40 CFR 63.149(b)]

### T234 TK-M2, Storage Tank

- 178 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 179 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 180 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 181 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 182 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 183 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 184 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

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- 1234 TK-M2, Storage Tank**  
185 Submit report: Due semiannually, by the 15th of March and September. Submit the number of breakthroughs for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]  
186 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]  
187 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63.149(b). Subpart G. [40 CFR 63.149(b)]
- 1235 TK-213, Storage Tank**  
188 Equip with a submerged fill pipe. [LAC 33:III.2103.A]  
189 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
190 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]  
191 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 1236 TK-214, Storage Tank**  
192 Equip with a submerged fill pipe. [LAC 33:III.2103.A]  
193 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
194 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]  
195 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 1237 TK-215, Storage Tank**  
196 Equip with a submerged fill pipe. [LAC 33:III.2103.A]  
197 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
198 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]  
199 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 1238 TK-13001, Storage Tank**  
200 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.2103, LAC 33:III.Chapter 51, and 40 CFR 60, Subpart Kb. [LAC 33:III.2103.B, LAC 33:III.5109.A, 40 CFR 60.112(a)(2)]  
201 Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]

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### T238 TK-13001, Storage Tank

- 202 External floating roof: Equip with a closure device between the wall of the storage vessel and the roof edge that meets the specifications in 40 CFR 63.119(c)(1)(i) through (c)(1)(v). Subpart G. [40 CFR 63.119(c)(1)]
- 203 External floating roof: Ensure that each external floating roof meets the specifications listed in 40 CFR 63.119(c)(2)(i) through (c)(2)(xii). Subpart G. [40 CFR 63.119(c)(2)]
- 204 External floating roof: Ensure that the external floating roof is floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the periods specified in 40 CFR 63.119(c)(3)(i) through (c)(3)(iii). When the floating roof is resting on the leg supports, ensure that the process of filling, emptying or refilling is continuous and accomplished as soon as practical. Subpart G. [40 CFR 63.119(c)]
- 205 Determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel, and the secondary seal and the wall of the storage vessel according to the frequency specified in 40 CFR 63.120(b)(1)(i) through (b)(1)(v). Subpart G. [40 CFR 63.120(b)(1)]
- 206 If any of the conditions listed in 40 CFR 63.120(b)(1)(i) are found during the visual inspection required by 40 CFR 63.120(b)(1)(i), repair the storage vessel as necessary so that none of the conditions specified exist before filling or refilling the storage vessel with organic HAP. Subpart G. [40 CFR 63.120(b)(1)(i)]
- 207 Tank roof and seals monitored by visual inspection/determination upon each occurrence of the vessel being emptied and degassed. Subpart G. [40 CFR 63.120(b)(10)]  
Which Months: All Year Statistical Basis: None specified
- 208 Submit Notification: Due in writing at least 30 calendar days prior to filling or refilling of each storage vessel with organic HAP to afford DEQ the opportunity to inspect the storage vessel prior to refilling, for all the inspections required by 40 CFR 63.120(b)(10). If the inspection required by 40 CFR 63.120(b)(10) is not planned and it could not have been known about 30 calendar days in advance of refilling the vessel with organic HAP, submit notification at least 7 calendar days prior to refilling. Notification can be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Subpart G. [40 CFR 63.120(b)(10)]
- 209 Determine gap widths and gap areas in the primary and secondary seals (seal gaps) individually by the procedures described in 40 CFR 63.120(b)(2)(i) through (b)(2)(iii). Subpart G. [40 CFR 63.120(b)(2)]
- 210 Add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal must not exceed 21.2 cm<sup>2</sup>/m of vessel diameter and the width of any portion of any gap must not exceed 3.81 cm. Subpart G. [40 CFR 63.120(b)(3)]
- 211 Add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal must not exceed 21.2 cm<sup>2</sup>/m of vessel diameter and the width of any portion of any gap must not exceed 1.27 cm. Subpart G. [40 CFR 63.120(b)(4)]
- 212 Primary seal: Where a metallic shoe is in use, one end of the metallic shoe shall extend into the stored liquid and the other end shall extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart G. [40 CFR 63.120(b)(5)(i)]
- 213 Primary seal: Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope. Subpart G. [40 CFR 63.120(b)(5)(ii)]
- 214 Secondary seal: Install above the primary seal so that it completely covers the space between the roof edge and the vessel wall except as provided in 40 CFR 63.120(b)(4). Subpart G. [40 CFR 63.120(b)(6)(i)]
- 215 Secondary seal: Ensure that there are no holes, tears, or other openings in the seal or seal fabric. Subpart G. [40 CFR 63.120(b)(6)(ii)]
- 216 If it is determined that it is unsafe to perform the seal gap measurements required in 40 CFR 63.120(b)(1) and (b)(2) or to inspect the vessel to determine compliance with 40 CFR 63.120(b)(5) and (b)(6) because the floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe, or empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. Subpart G. [40 CFR 63.120(b)(7)]
- 217 Repair conditions that do not meet requirements listed in 40 CFR 63.120(b)(3), (b)(4), (b)(5) and (b)(6) no later than 45 calendar days after identification, or empty and remove the storage vessel from service no later than 45 calendar days after identification. Subpart G. [40 CFR 63.120(b)(8)]
- 218 Submit Notification: Due in writing 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2) to afford DEQ the opportunity to have an observer present. Subpart G. [40 CFR 63.120(b)(9)]
- 219 Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)]

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### 1238 TK-13001, Storage Tank

- 220 Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 221 Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 222 Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]
- 223 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G. [40 CFR 63.123]

### 1239 TK-13002, Storage Tank

- 224 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III.2103, LAC 33:III.Chapter 51, and 40 CFR 60, Subpart Kb. [LAC 33:III.2103.B, LAC 33:III.5109.A, 40 CFR 60.112(a)(2)]
- 225 Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 226 External floating roof: Equip with a closure device between the wall of the storage vessel and the roof edge that meets the specifications in 40 CFR 63.119(c)(1)(i) through (c)(1)(v). Subpart G. [40 CFR 63.119(c)(1)]
- 227 External floating roof: Ensure that each external floating roof meets the specifications listed in 40 CFR 63.119(c)(2)(i) through (c)(2)(xii). Subpart G. [40 CFR 63.119(c)(2)]
- 228 External floating roof: Ensure that the external floating roof is floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the periods specified in 40 CFR 63.119(c)(3)(i) through (c)(3)(iii). When the floating roof is resting on the leg supports, ensure that the process of filling, emptying or refilling is continuous and accomplished as soon as practical. Subpart G. [40 CFR 63.119(c)]
- 229 Determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel, and the secondary seal and the wall of the storage vessel according to the frequency specified in 40 CFR 63.120(b)(1)(i) through (b)(1)(iv). Subpart G. [40 CFR 63.120(b)(1)]
- 230 If any of the conditions listed in 40 CFR 63.120(b)(1)(v) are found during the visual inspection required by 40 CFR 63.120(b)(1)(v), repair the storage vessel as necessary so that none of the conditions specified exist before filling or refilling the storage vessel with organic HAP. Subpart G. [40 CFR 63.120(b)(1)(i)]
- 231 Tank roof and seals monitored by visual inspection/determination upon each occurrence of the vessel being emptied and degassed. Subpart G. [40 CFR 63.120(b)(1)(v)]
- Which Months: All Year Statistical Basis: None specified
- 232 Submit Notification: Due in writing at least 30 calendar days prior to filling or refilling of each storage vessel with organic HAP to afford DEQ the opportunity to inspect the storage vessel prior to refilling, for all the inspections required by 40 CFR 63.120(b)(1)(v). If the inspection required by 40 CFR 63.120(b)(1)(v) is not planned and it could not have been known about 30 calendar days in advance of refilling the vessel with organic HAP, submit notification at least 7 calendar days prior to refilling. Notification can be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Subpart G. [40 CFR 63.120(b)(1)(v)]
- 233 Determine gap widths and gap areas in the primary and secondary seals (seal gaps) individually by the procedures described in 40 CFR 63.120(b)(2)(i) through (b)(2)(iii). Subpart G. [40 CFR 63.120(b)(2)]
- 234 Add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal must not exceed  $21.2 \text{ cm}^2/\text{m}$  of vessel diameter and the width of any portion of any gap must not exceed 3.81 cm. Subpart G. [40 CFR 63.120(b)(3)]
- 235 Add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal must not exceed  $21.2 \text{ cm}^2/\text{m}$  of vessel diameter and the width of any portion of any gap must not exceed 1.27 cm. Subpart G. [40 CFR 63.120(b)(4)]
- 236 Primary seal: Where a metallic shoe is in use, one end of the metallic shoe shall extend into the stored liquid and the other end shall extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart G. [40 CFR 63.120(b)(5)(i)]
- 237 Primary seal: Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope. Subpart G. [40 CFR 63.120(b)(5)(ii)]

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**IT239 TK-13002, Storage Tank**

- 238 Secondary seal: Install above the primary seal so that it completely covers the space between the roof edge and the vessel wall except as provided in 40 CFR 63.120(b)(4). Subpart G. [40 CFR 63.120(b)(6)(i)]
- 239 Secondary seal: Ensure that there are no holes, tears, or other openings in the seal or seal fabric. Subpart G. [40 CFR 63.120(b)(6)(ii)]
- 240 If it is determined that it is unsafe to perform the seal gap measurements required in 40 CFR 63.120(b)(1) and (b)(2) or to inspect the vessel to determine compliance with 40 CFR 63.120(b)(5) and (b)(6) because the floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe, or empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. Subpart G. [40 CFR 63.120(b)(7)]
- 241 Repair conditions that do not meet requirements listed in 40 CFR 63.120(b)(3), (b)(4), (b)(5) and (b)(6) no later than 45 calendar days after identification, or empty and remove the storage vessel from service no later than 45 calendar days after identification. Subpart G. [40 CFR 63.120(b)(8)]
- 242 Submit Notification: Due in writing 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2) to afford DEQ the opportunity to have an observer present. Subpart G. [40 CFR 63.120(b)(9)]
- 243 Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)]
- 244 Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 245 Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 246 Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]
- 247 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G. [40 CFR 63.123]

**IT240 TK-M3, Storage Tank**

- 248 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 249 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 250 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 251 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable. [LAC 33:III.2103.I]
- 252 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 253 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 254 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 255 Submit report: Due semiannually, by the 15th of March and September. Submit the number of breakthroughs for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 256 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F and G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51. [LAC 33:III.5109.A]
- 257 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63.149(b). Subpart G. [40 CFR 63.149(b)]

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### I257 MPV(Refrac), Refining Units Miscellaneous Process Vents

- 258 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 259 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 260 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 261 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- 262 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
- Which Months: All Year Statistical Basis: None specified
- 263 Heat content  $\geq 300$  BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 264 Reduce emissions of organic HAPs using a flare that meets the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1), 40 CFR 63.644(a)(2)]
- 265 Conduct a compliance determination for visible emissions within 150 days of the compliance date using Method 22 of 40 CFR part 60, appendix A, to determine visible emissions. Subpart CC. [40 CFR 63.645(i)]

### I258 MPV(OSI), SOCMI Miscellaneous Process Vents

- 266 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart F. [40 CFR 63.100]
- 267 Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- 268 Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 269 Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
- 270 Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
- 271 Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
- 272 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 273 Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G. [40 CFR 63.119(e)(3)]

### G010 FE-ARO, Aromatics Process Fugitives

- 274 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 275 Compliance with all the applicable requirements of NSPS, Subpart GGG is considered compliance with all the applicable requirements of LAC 33:III.2121. [LAC 33:III.2121]
- 276 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51; NESHAP, 40 CFR 61, Subpart J; and NESHAP, Subpart V, 40 CFR 61.242-1 thru 242-10. [LAC 33:III.5109.A, 40 CFR 61.110, 40 CFR 61.242, 40 CFR 63.640-655]

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### **G010 FE-ARO, Aromatics Process Fugitives**

- 277 The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program. [LAC 33:III.5109.A]
- 278 Comply with the requirements of 40 CFR 60.482-1 to 482-1.0 as soon as practicable, but no later than 180 days after initial startup. Subpart GGG. [40 CFR 60.592(a)]
- 279 Comply with the provisions of 40 CFR 60.485 except as provided in 40 CFR 60.593. Subpart GGG. [40 CFR 60.592(d)]
- 280 Comply with the provisions of 40 CFR 60.486 and 60.487. Subpart GGG. [40 CFR 60.592(e)]
- 281 Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 282 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 283 Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 284 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 285 Conduct all required compliance demonstrations for flexible operation units during production of the primary product. Operate each control device, recovery device, and/or recapture device that is required or used for compliance, and associated monitoring systems, without regard for whether the product that is being produced is the primary product or a different product, except as otherwise specified in 40 CFR 63 Subparts F, G and H. Subpart F. [40 CFR 63.103(b)(6)]
- 286 Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 287 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 288 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 289 Maintenance wastewater. Implement the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 290 Maintenance wastewater. Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 291 Maintenance wastewater. Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F. [40 CFR 63.105]
- 292 Operate and maintain on each opening in the individual drain system a cover and if vented, route the vapors to a process or through a closed vent system to a control device. Maintain the cover and all openings in accordance with the requirements specified in 40 CFR 63.148. Design, operate and inspect the control device in accordance with 40 CFR 63.139. Inspect the closed-vent system in accordance with 40 CFR 63.148. Design and operate the individual drain system to segregate the vapors within the system from other drain systems and the atmosphere. Subpart G. [40 CFR 63.136(b)]

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### 3010 FE-ARO, Aromatics Process Fugitives

- 293 Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices and control equipment failures, in accordance with the inspection requirements specified in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.136(c)]  
Which Months: All Year Statistical Basis: None specified
- 294 When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification, except as specified in 40 CFR 63.140. Complete repair within 15 calendar days after identification. Subpart G. [40 CFR 63.136(d)]
- 295 Equip with water seal controls or a tightly fitting cap or plug. Comply with 40 CFR 63.136(e)(i) and (e)(i)(ii). Subpart G. [40 CFR 63.136(e)(1)]
- 296 Equip each junction box with a tightly fitting solid cover kept in place at all times except during inspection and maintenance. If the junction box is vented, comply with the requirements in 40 CFR 63.136(e)(2)(i) or (e)(2)(ii). Subpart G. [40 CFR 63.136(e)(2)]
- 297 Ensure that each sewer line is not open to the atmosphere and is covered or enclosed in a manner so as to have no visible gaps or cracks in joints, seals, or other emission interfaces. Subpart G. [40 CFR 63.136(e)(3)]
- 298 Each drain using a tightly fitting cap or plug: Equipment/operational data monitored by visual inspection/determination once initially and once every six months to ensure caps or plugs are in place and that there are no gaps, cracks, or other holes in the cap or plug. Subpart G. [40 CFR 63.136(f)(1)]  
Which Months: All Year Statistical Basis: None specified
- 299 Junction box: Equipment/operational data monitored by visual inspection/determination once initially and once every six months to ensure that there are no gaps, cracks, or other holes in the cover. Subpart G. [40 CFR 63.136(f)(2)]  
Which Months: All Year Statistical Basis: None specified
- 300 Unburied portion of each sewer line: Equipment/operational data monitored by visual inspection/determination once initially and once every six months for indication of cracks or gaps that could result in air emissions. Subpart G. [40 CFR 63.136(f)(3)]  
Which Months: All Year Statistical Basis: None specified
- 301 When a gap, hole, or crack is identified in a joint or cover, make first efforts at repair no later than 5 calendar days after identification and complete repair within 15 calendar days after identification, except as specified in 40 CFR 63.140. Subpart G. [40 CFR 63.136(g)]
- 302 Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- 303 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]
- 304 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- 305 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 306 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(t). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 307 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]  
Which Months: All Year Statistical Basis: None specified

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- 308 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- 309 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 310 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 311 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 312 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 313 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 314 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 315 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 316 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 317 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 318 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 319 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
- Which Months: All Year Statistical Basis: None specified

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- 320 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 321 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]  
Which Months: All Year Statistical Basis: None specified
- 322 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 323 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 324 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 325 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 326 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 327 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 328 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]  
Which Months: All Year Statistical Basis: None specified
- 329 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- Which Months: All Year Statistical Basis: None specified
- 330 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]  
Which Months: All Year Statistical Basis: None specified
- 331 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 332 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]  
Which Months: All Year Statistical Basis: None specified
- 333 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]

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- 334 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 335 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 336 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]  
Which Months: All Year Statistical Basis: None specified
- 337 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]  
Which Months: All Year Statistical Basis: None specified
- 338 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]  
Which Months: All Year Statistical Basis: None specified
- 339 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]  
Which Months: All Year Statistical Basis: None specified
- 340 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 341 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]  
Which Months: All Year Statistical Basis: None specified
- 342 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 343 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 344 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]  
Which Months: All Year Statistical Basis: None specified
- 345 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]

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- 346 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
- Which Months: All Year Statistical Basis: None specified
- 347 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 1.0,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- 348 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 349 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 350 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 351 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 352 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- 353 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 354 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 355 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
- Which Months: All Year Statistical Basis: None specified
- 356 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]

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- 357 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 358 Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]  
Which Months: All Year Statistical Basis: None specified
- 359 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 360 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]  
Which Months: All Year Statistical Basis: None specified
- 361 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 362 Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]  
Which Months: All Year Statistical Basis: None specified
- 363 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 364 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]  
Which Months: All Year Statistical Basis: None specified
- 365 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]  
Which Months: All Year Statistical Basis: None specified
- 366 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 367 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- 368 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 369 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]

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- 370 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.173(d)(6) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- 371 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- 372 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- 373 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- Which Months: All Year Statistical Basis: None specified
- 374 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
- Which Months: All Year Statistical Basis: None specified
- 375 Agitators in gas/vapor service or light liquid service (difficult to monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 376 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- 377 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 378 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 379 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
- Which Months: All Year Statistical Basis: None specified

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- 380 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 381 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- 382 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 383 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 384 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 385 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 386 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 387 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
- 388 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 389 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- 390 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- 391 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 392 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]

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- 393 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]
- 394 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 395 Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 396 Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 397 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 398 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 399 Comply with the requirements of 40 CFR 63.161 through 63.171, 63.172, 63.175, 63.176, 63.177, 63.179, and 63.180 except as specified in 40 CFR 63.648(c)(1) through (c)(10) and (e) through (i). Subpart CC. [40 CFR 63.648(h)]
- 400 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 401 Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

### P033 Aromatics

- 402 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 403 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 404 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 405 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 406 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 1.5. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 407 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 408 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 409 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 410 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]

**SPECIFIC REQUIREMENTS**

**AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery**

**Activity Number: PER19960012**

**Permit Number: 3017-V0**

**Air - Title V Regular Permit Initial**

**P033 Aromatics**

- 411 Carbon monoxide  $\leq$  130.53 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 412 Nitrogen oxides  $\leq$  418.14 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 413 Particulate matter (10 microns or less)  $\leq$  22.55 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 414 Sulfur dioxide  $\leq$  59.54 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 415 VOC, Total  $\leq$  403.31 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 416 1,3-Butadiene  $\leq$  0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 417 2,2,4-Trimethylpentane  $\leq$  0.20 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 418 Ammonia  $\leq$  1.52 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 419 Benzene  $\leq$  21.22 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 420 Biphenyl  $\leq$  0.05 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 421 Carbon disulfide  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 422 Chlorobenzene  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 423 Cresol  $\leq$  0.10 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 424 Cumene  $\leq$  0.29 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 425 Dichloromethane  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 426 Ethyl benzene  $\leq$  14.34 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 427 Hydrogen sulfide  $\leq$  1.72 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 428 Methanol  $\leq$  1.16 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 429 Methyl ethyl ketone  $\leq$  0.11 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 430 Methyl isobutyl ketone  $\leq$  0.002 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

AJ ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

Air - Title V Regular Permit Initial

### P033      Aromatics

- 431 Methyl Tertiary Butyl Ether  $\leq$  0.20 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 432 Naphthalene (and Methyl naphthalenes)  $\leq$  0.68 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 433 n-Hexane  $\leq$  4.36 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 434 Phenol  $\leq$  0.15 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 435 Quinoline  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 436 Styrene  $\leq$  0.02 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 437 Sulfuric acid  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 438 Tetrachloroethylene  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 439 Toluene  $\leq$  92.18 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 440 Trichloroethylene  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 441 Xylene (mixed isomers)  $\leq$  139.08 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year      Statistical Basis: Annual maximum
- 442 Until a settlement is reached with EPA and LDEQ on related air quality issues, the permittee shall operate all emission sources in compliance with the interim or permitted emission limitations and associated requirements contained in Appendix A of the Administrative Order on Consent dated May 25, 2005 in lieu of the emission EPA and LDEQ, the permittee shall, within three (3) months after issuance of all of the Part 70 permits for the entire refinery, submit an application to revise and update PSD-LA-199 to incorporate the settlement requirements in their entirety. [LAC 33:III.509, 40 CFR 52.21]
- 443 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 444 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 445 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 446 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 447 Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

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### P033

#### **Aromatics**

- 448 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 449 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 450 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.5107.B.2]
- 451 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.5107.B.3]
- 452 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 453 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 454 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 455 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112, Table 51.2. [LAC 33:III.5109.B]
- 456 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.5111.A.2.a. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 457 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 458 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 459 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 460 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

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### 2033

#### Aromatics

- 461 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 462 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 463 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 464 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 465 Submit certified letter. Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 466 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 467 Submit notification. Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 468 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 469 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 470 Submit performance evaluation report. Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 471 Submit notification in writing. Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 472 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 473 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 474 Submit report. Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 475 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 476 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 477 Submit plan. Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 478 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 479 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.51.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.51.F.1.f]

## SPECIFIC REQUIREMENTS

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### P033 Aromatics

- 480 Activate the planned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 481 Activate the planned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 482 Activate the planned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 483 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 484 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 485 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 486 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 487 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 488 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 489 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 490 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 491 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
- 492 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]
- 493 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]
- 494 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 495 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 496 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]
- 497 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 498 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

## SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

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### P033 Aromatics

- 499 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 500 Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(c)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)]
- 501 Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- 502 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 503 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 504 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 505 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 506 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 507 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 508 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

### P034 Group A Tanks Emission Cap

- 509 Permittee shall show compliance with the limits of this permit by maintaining the total overall calculated voc emissions, Emission Point ARO-TKGRP-A (Cap) based on the throughput, vapor pressure and temperature of the stored material from all the tanks listed below to no more than 66.32 TPY. The overall VOC emission of the tanks shall be calculated using tank throughput, vapor pressure and temperature of the material stored and recorded each month, as well as the VOC emission calculated for all the tanks for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total overall calculated VOC emissions from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the overall calculated VOC emissions shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

Emission Points TK-131-38, TK-207, TK-208, TK-209, TK-210, TK-211, TK-212, TK-216, TK-217, TK-218, TK-219, TK-221, TK-222, TK-223, TK-M1, TK-M2. [LAC 33:III.501.C.6]

### P035 Group B Tanks Emission Cap

**SPECIFIC REQUIREMENTS**

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960012

Permit Number: 3017-V0

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**P035 Group B Tanks Emission Cap**

510 Permittee shall show compliance with the limits of this permit by maintaining the total overall calculated voc emissions, Emission Point ARO-TKGRP-B (Cap) based on the throughput, vapor pressure and temperature of the stored material from all the tanks listed below to no more than 2.83 TPY. The overall VOC emission of the tanks shall be calculated using tank throughput, vapor pressure and temperature of the material stored and recorded each month, as well as the VOC emission calculated for all the tanks for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total overall calculated VOC emissions from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the overall calculated VOC emissions shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

Emission Points TK-213, TK-214, TK-215, TK-13001, TK-13002, TK-M3. [LAC 33:III.501.C.6]